

PATENT COOPERATION TREATY

REC'D 23 MAR 2005

PCT

WIPO PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference TS 6405 PCT International application No. PCT/EP2004/050681			R FURTHER ACTIO	See Form PCT/IPEA/416				
			International filing date (day/month/year) 03.05.2004		Priority date (day/month/year) 05.05.2003			
	rnational Patent ClassIf 1 B43/10	ication (IPC) or national	classification and IPC					
Applicant SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V.								
1.	This report is the international preliminary examination report, established by this International Preliminary Exam Authority under Article 35 and transmitted to the applicant according to Article 36.							
2.	This REPORT consists of a total of 4 sheets, including this cover sheet. This report is also accompanied by ANNEXES, comprising: a. sent to the applicant and to the International Bureau) a total of sheets, as follows:							
3.								
	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
	sequence	listing and <i>l</i> or tables re	only) a total of (indica elated thereto, in compi g (see Section 802 of t	uter readable fori	ber of electronic carrier(s)) , containing m only, as indicated in the Supplementa e Instructions).			
4.	This report contai	ns indications relating	to the following items:					
	⊠ Box No. I	Basis of the opinion						
		Priority						
		•	f opinion with regard to	novelty, inventiv	e step and industrial applicability			
		Lack of unity of inver	•	•				
	⊠ Box No. V	Reasoned statement applicability; citations	under Article 35(2) wit and explanations sup	h regard to novel porting such state	lty, inventive step or industrial ement			
	☐ Box No. VI	Certain documents of						
			e international applicati					
	☐ Box No. VIII	Certain observations	on the international ap	plication				
Dat	te of submission of the	demand	Da	te of completion of	this report			
03.02.2005				.03.2005				
Na	me and mailing addres	s of the international	Au	thorized Officer	nes Palegro.			
pre	liminary examining aut	hority: Patent Office			Section 11			
	D-80298 M	unich	To	mpouloglou, C				
	JUI. +49 89	2399 - 0 Tx: 523656 ep 9 2399 - 4465	mu d (lephone No. +49 8				



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	Box	No. I	Basis of the report		
1.	filed,	, unless	to the language , this report is based on the international application in the language in which it was so otherwise indicated under this item.		
which is the language of a translation furnished for the purpo			port is based on translations from the original language into the following language, s the language of a translation furnished for the purposes of:		
		☐ inte☐ pub☐	rnational search (under Rules 12.3 and 23.1(b)) Dication of the international application (under Rule 12.4) Ernational preliminary examination (under Rules 55.2 and/or 55.3)		
2.	. With regard to the elements* of the international application, this report is based on <i>(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):</i>				
	Des	cription	n, Pages		
	1-12		as originally filed		
	Claims, Numbers				
	1-7		as originally filed		
	Drawings, Sheets				
	1/3-		as originally filed		
		a seq	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing		
,	s. 🗆	The a	amendments have resulted in the cancellation of:		
•	<i>.</i> . —		e description, pages		
		☐ th	e claims, Nos.		
		□ th	e drawings, sheets/figs e sequence listing <i>(specify)</i> :		
		a	ny table(s) related to sequence listing (specify):		
	4. □ ha Տւ	id not b upplem	report has been established as if (some of) the amendments annexed to this report and listed below een made, since they have been considered to go beyond the disclosure as filed, as indicated in the ental Box (Rule 70.2(c)).		
			ne description, pages ne claims, Nos. ne drawings, sheets/figs ne sequence listing <i>(specify)</i> : ny table(s) related to sequence listing <i>(specify)</i> :		
	*		item 4 applies, some or all of these sheets may be marked "superseded."		



INTERNATIONAL PRELIMINARY REPORT **ON PATENTABILITY**

International application No. PCT/EP2004/050681

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industria Box No. V applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-7

Claims No:

Inventive step (IS)

Yes: Claims Claims 1-7

Industrial applicability (IA)

Yes: Claims

No:

1-7

Claims No:

2. Citations and explanations (Rule 70.7):

see separate sheet

Certain defects in the international application Box No. VII

The following defects in the form or contents of the international application have been noted:

see separate sheet



(SEPARATE SHEET)

REPORT ON PATENTABILITY

International application No.

PCT/EP2004/050681

POINT V

Closest prior art: D1: WO-A-0198623 discloses an expansion device (fig. 14) for expanding a pipe (1435), which expansion device has a front end (anchor 1430) and a rear end (1450) and comprises an expansion cone (1440) tapering in forward direction toward the front end of the expansion device, an anchor capable of being selectively anchored to the inner surface of the pipe (1435), an actuator for moving the pipe.

<u>Problem</u>: This embodiment require two further support members a first one (1425) for the pipe and second one (1445) for the expansion cone. The first one is an elongated tubular member linked to the surface and the second one is a packer which require a setting in order to be active. Therefore the expanding operation becomes expensive.

<u>Solution</u>: The distinguishing feature of claim 1 result in that the actuator for moving the expansion device has the double function of selectively advancing the expansion device or the anchoring means the selection between the two states being automatic. This entails that the actuator supports the expansion device and the pipe to be expanded. Therefore no additional support member is required.

D2: W0-A-02086285 discloses indeed an actuator for moving the expansion device between two anchoring sets inside the pipe. The operation is done in two separate steps, an expansion step and a reset step, the latter requiring a second actuator for pushing the pipe. A coordination of activating the anchors and the pipe is not provided the operation having thereby the further disadvantage that switching from one step to the other is not performed automatically.

Therefore this document does not contribute to an operational efficiency and cannot be used to debate the inventive step of claim 1.

POINT VII

Following was not observed:

- Rule 6.3 (b) PCT: Two part form of the independent claim.
- Rule 6.2 (b) PCT: Reference signs in the claims.
- Rule 5.1 (a) ii) PCT: Reference also to D1 and its disclosure in the description.